

SOV/68-59-8-3/32

· Matériel Balance of the Coking Process

ash balance was quite satisfactory (-0.04%). Various formulae proposed for the determination of the coke yield are compared with the results obtained (see figure). The best agreement was obtained with the Japanese formula (Ref 1). There are 4 tables, 1 figure and 6 references, 2 of which are Soviet, 2 English and 2 German.

ASSOCIATION:UKhIN

Card 3/3

SHVARTS, S.A.

Indices of strength of coke. Koks i khim, no.1:27-30 '60.
(MIRA 13:6)

1. Ukrainskiy uglekhimicheskiy institut,
(Coke)

SHVARTS, Solomon Aronovich; KHAYKIN, V.P., otv. red.; LIBERMAN, S.S.,
red. izd-va; ANDREYEV, S.P., tekhn. red.

[Application of mathematical statistics to the analysis of
coal-chemical production processes] Prilozhenie matematiches-
skoi statistiki k analizu protsessov koksokhimicheskogo pro-
izvodstva. Khar'kov, Metallurgizdat, 1962. 212 p.

(MIRA 15:8)

(Coke industry---By-products)
(Mathematical statistics)

SHVARTS, S.A.; AKSENIN, N.P.

Calculating coke output. Koks i khim. no.4:18-22 '62.
(MIRA 16:8)

1. Ukrainskiy uglekhimicheskiy institut.
(Coke industry)

TAYTS, Ye.M., doktor tekhn. nauk; SHVARTS, S.A., kand. tekhn. nauk [deceased]; PEYSAKHZON, I.B., inzh.; GEL'FER, M.L., inzh.; DMITRIYENKO, M.T., inzh.; DORFMAN, G.A., inzh.; IZRAELIT, Ye.M., inzh.; KULAKOV, N.K., inzh.; KUSHLYANSKIY, B.S., inzh.; MEYKSON, L.V., inzh. [deceased]; LEONOV, A.S., inzh.; SHVARTS, G.A., inzh.; SHVARTSMAN, I.Ya., inzh.; YATSENKO, N.Ya., inzh.; BABIN, P.P., inzh.; KHANIN, I.M., doktor tekhn. nauk, prof., red.; KOZYREV, V.P., inzh., red.; KUPETMAN, P.I., inzh., red.; LGALOV, K.I., inzh., red.; LEYTES, V.A., inzh., red.; LERNER, B.Z., inzh., red.; POTAPOV, A.G., inzh., red.; SHELKOV, A.K., red.

[By-product core industry worker's handbook in six volumes]
Spravochnik koksokhimika v shesti tomakh. Moskva, Metal-
lurgiya. Vol.2. 1965. 288 p. (MIRA 18:8)

SHVACH, V. V.

Note on the theory of negative matrices. Sib. mat. zhur. 5 no.1:
200-211 Jan-F '69. (MIRA 18.4

KATKOVSKIY, S.B.; SHVARTS, S.I.

Relation of zinc and insulin content to conditions of crystallization.
Probl. endok. i gorm. 6 no. 3:83-85 My-Je '60. (MIRA 14:1)
(INSULIN) (ZINC)

GUROV, Vyacheslav Alekseyevich; SHVARTS, S.I., spetsred.; KORBUT, L.V.,
red.; SATAROVA, A.M., tekhn.red.

[Handbook on the endocrine, enzymatic, and special raw materials
for and the production of organic preparations] Spravochnik po
endokrinnomu, fermentnomu, spetsial'nomu syr'iu i proizvodstvu
organopreparatov. Moskva, Pishchepromizdat, 1961. 307 p.

(MIRA 15:4)

(MATERIA MEDICA, ANIMAL)

(DRUG INDUSTRY)

KATKOVSKIY, S.; SHVARTS, S.

New techniques for producing crystalline insulin. Mias.
ind. SSSR 32 no.1:52-55 '61. (MIRA 14:7)

1. Vsesoyuznyy institut eksperimental'noy endokrinologii.
(INSULIN)

KATKOVSKIY, S.; SHVARTS, S.; NEDOBORA, A.; MDIVNISHVILI, O.

Use of diatomites in the production of insulin. Mias. ind.
SSSR 34 no.5:48-50 '63. (MIRA 16:11)

1. Vsesoyuznyy institut eksperimental'noy endokrinologii
(for Katkovskiy, Shvarts, Nedobora). 2. Kavkazskiy institut
mineral'nogo syr'ya (for Mdivnishvili).

AUTHORS: Klemeshov, G.A., Panasenko, F.L., 32-3-50/52
Smolenskiy, F.A., Shvarts, S.M.

TITLE: Standard Laboratory for Radioactive Isotopes (Tipovaya laboratoriya radioaktivnykh izotopov)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 3, pp. 376-379 (USSR)

ABSTRACT: This paper contains a short description of a laboratory project designed for a large metallurgical plant. In this laboratory it is intended to use isotopes of carbon, sulphur, phosphorus, silicon, manganese, calcium, iron, cobalt, iridium, etc. Particular attention was paid to special sanitary protective measures in the working, distribution, transport, etc. of isotopes. For this reason the laboratory project was worked out according to a three-zone system. This system includes hermetically closed rooms which are radiologically "contaminated". Isolated from these are the "half-clean" rooms, and, completely separated; the "clean" rooms. In the first-named rooms preparation-, purification-, and repair work etc, is carried out, for which purpose special clothing is worn, or, for aerosol work, hermetically closed

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Standard Laboratory for Radioactive Isotopes

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chambers are used. A schematical drawing of a hermetically closed furnace, in which it is possible to melt radioactive isotopes in the vacuum, air, or inert gas atmosphere, is given. Conveying radioactive preparations from one chamber into another is brought about mechanically by means of a conveyor band, whilst a special air conditioning system is used for the purification of air. A ground section of the laboratory shows the arrangement of rooms as well as other details. Thus, the building also contains a room for gamma defectoscopy with an adjoining chamber with radiosopic devices of the type Γ -Co-5-1, Γ -Co-50-1 and KC-6; these devices are remote-controlled. There are 2 figures.

ASSOCIATION: State Institute for the Planning of Metallurgical Plants
"Giprostal'" (Gosudarstvennyy institut po proyektirovaniyu metallurgicheskikh zavodov "Giprostal'")

AVAILABLE: Library of Congress

Card 2/2

1. Metallurgical laboratories-Characteristics

SHVARTS, S.M.; IL'IN, N.M., redaktor; MAL'KOVA, N.V., tekhnicheskii
~~redaktor.~~

[Laboratory work on electric equipment for automobiles.] Laboratornye raboty po elektrooborudovaniyu avtomobilei. Moskva, Avtotransizdat, 1954. 134 p. (MLRA 8:3)
(Automobiles—Electric equipment)

SHVARTS, Solomon Mikhaylovich; IL'IN, N.M., red.; BODANOVA, A.P.,
tekh. red.

[Laboratory practical work on the electric equipment of motor
vehicles] Laboratornyi praktikum po elektrooborudovaniyu avto-
mobilei. Izd.2. ispr. i dop. Moskva, Avtotransizdat, 1962. 130 p.
(MIRA 15:7)

(Motor vehicles--Electric equipment)
(Electric laboratories)

GRECHIKH, V.I.; SHVARTS, S.M., red.

[Electric engineering; a manual on the subject: "The single-phase a.c. network"] Elektrotehnika; uchebnoe posobie po teme: "Elektricheskaiia tsep' odnofaznogo peremennogo toka." Gor'kii, M-vo avtomobil'nogo transporta i shosseinykh dorog, 1963. 86 p. (MIRA 17:8)

ZABRODSKIY, A.G.; SMIRNOV, N.K.; Prinimali uchastiye: RUDENKO, O.A.;
FILIPENKO, I.S.; SEMENCHENKO, A.D.; KORCHEVSKIY, M.I.;
TEMASHNYUK, D.S.; SHVARTS, S.P.; BRITSKAYA, Z.A.; RESHETOVA, L.N.;
SHAKHOVA, V.A.; DANILENKO, P.L.

More about the effect of the amount of water and of its automatic
proportioning in the boiling to pulp of raw materials. Trudy
UkrNIISP no.5:13-20 '59. (MIRA 16:11)

1. Vashkovskiy zavod (for Rudenko, Filipenko, Semenchenko,
Korchevskiy, Temashnyuk, Shvarts, Britskaya). 2. Chernovitskiy
spirtovyy trest (for Reshetova, Shakhova). 3. Ukrainskiy
nauchno-issledovatel'skiy institut spirtovoy i likero-vodochnoy
promyshlennosti (for Danilenko).

KHENKIN, A.A., stivdor-nastavnik; SHVARTS, S.S., inzh.

Loading large-size cargo on ships in the Odessa harbor. Biul.
tekh.-ekon.inform. Tekh. upr. Min. mor. flota 7 no.5:68-75
'62. (MIRA 16:3)

(Odessa--Cargo handling)

KLATSMAN, Ye.I., inzh. portovogo flota; SHVARTS, S.S., inzh. portovogo flota

Experience of combined professions on harbor boats. Biul.
tekh.-ekon. inform. Tekh. upr. Min. mor. flota 7 no.8:75-76
'62. (MIRA 16:5)

(Merchant seamen)

GEKHMEN, Yu.L., inzh.; SHVARTS, S.S., inzh.

Rapid loading and unloading of ships in the Odessa harbor.
Biul.tekh.-ekon. inform. Tekh.upr.Min.mor.flota 7 no.10:
88-97 '62. (MIRA 16:9)

1. Odesskiy port.

(Odessa--Cargo handling)

USSR/Medicine - Insects
Medicine - Amphibians

Sep/Oct 48

"The Specific Role of Amphibia in Biocenosis in Forests in Connection With Problems in Evaluating Animals From the Standpoint of Their Importance to Mankind," S. S. Shvarts, Chair of Zool of Vertebrates, Leningrad State U, 4 pp

"Zool Zhur" Vol XXVII, No 5

Not much information is available on the number of different species of insects found in the stomachs of insect-eating animals. Scientists are now trying to establish a ratio between the number of

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USSR/Medicine - Insects (Contd)

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insects found in the stomach of animals and the number of insects usually found in the general area.

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SHVARTS, S. S.

177, . . .
Dissertation: "Results of the Ecological Analysis of Certain Morphophysiological Characteristics of Hard Vertebrates." Dr Biol Sci, Moscow Order of Lenin State U
inani N. V. Lomonosov, 14 May 54. Vechernyaya Moskva, Moscow, 4 May 54.

CO: JUP 284, 28 Nov 1954

SHVARTS, S.S.

USSR.

✓ Effect of trace elements on animals in natural condition of an ore field. S. S. Shvarts. *Trudy Biogekhim. Lab., Akad. Nauk S.S.S.R.* 10, 76-81(1954).—Examu. of specimens of amphibia, reptiles, birds, and mammals in the habitat of ore deposits (Ni and Cu) reveals that trace elements which are abundant in the natural-water supply of the area cause definite physiol. changes. Amphibia show the changes most profoundly; Ni hinders the growth of liver and Cu accelerates it very strongly. Thus, liver dimensions in amphibia can be used as a symptom of Cu enrichment. G. M. Kosolapoff

CH

SHVARTS, S.S.

Specificity of the species in vertebrates. Zool.zhur. 33 no.3:
507-524 My-Je '54. (MLRA 7:7)

1. Institut biologii Ural'skogo filiala Akademii nauk SSSR.
(Zoology--Classification)

PAVLININ, V.N.; SHVARTS, S.S.

Natural maintenance of vitality in wild mammals. Zhur.obshch.
biol. 16 no.4:306-314 J1-Ag '55. (MLRA 8:11)

1. Laboratoriya zoologii Instituta biologii Ural'skogo filiala
Akademii nauk SSSR.

(MAMMALS) (ANIMALS, HABITS AND BEHAVIOR OF)

SHVARTS, S.S.

Biology of shrews in the trans-Ural forest-steppe region.
Zool.zhur. 34 no.4:915-927 J1-Ag '55. (MIRA 8:9)

1. Institut biologii Ural'skogo filiala Akademii nauk SSSR
(Ural Mountain region--Shrews)

SHVARTS, S.S. doktor biologicheskikh nauk; PAVLININ, V.N., kandidat biologicheskikh nauk.

[Instructions for counting and predicting the number of murine rodents in the forest steppes of the Transural region] *Ukasanie po uchetu i prognozu chislennosti mushevidnykh gryzunov v usloviakh lesostepnogo Zaural'ia. Sost. S.S. Shvarts i V.N. Pavlinin. Sverdlovsk, 1956. 26 p.* (MLRA 10:6)

1. Akademiya nauk SSSR. Ural'skiy filial, Sverdlovsk. Institut biologii.

(Siberia, Western--Rodentia)

SHVARTS, S.S.

Development of some internal characteristics in terrestrial
vertebrates [with English summary in insert]. Zool.shur.
35 no.6:804-819 Je '56. (MLRA 9:10)

1. Laboratoriya zoologii Instituta biologii Ural'skogo filiala
AN SSSR.

(Viscera) (Growth)

SHVARTS, S. S.

3
✓ Accumulation of vitamin A in muskrat under natural conditions. S. S. Shvarts, V. S. Smirnov, and L. G. Krotova. *Doklady Akad. Nauk S.S.S.R.* 109, 236-7(1956).—Embryos and young muskrats lack vitamin A in the liver. The vitamin begins to accumulate during lactation and accumulates most rapidly when the animals transfer to a vegetable-plant diet. Young animals in any case show very little vitamin A in the liver during the winter (2-3 mg. %). Thus, early spring is a crit. period during which addl. vitamin A should be supplied for satisfactory health. Vitamin A deficiency under natural conditions tends to increase the sensitivity of the tissues of the sex glands of the animals to the gonadotropic hormone of hypophysis. The increase of dimensions of hypophysis in muskrat is thus regarded as a natural compensating factor. G. M. Kosolapoff

USSR / Human and Animal Physiology (Normal and Pathological).
Metabolism.

T-3

Abstr Jour : Ref Zhur - Biologiya, No 13, 1958, No. 59993
Author : Shvarts, S. S.; Smirnov, V. S.; Krotova, L. G.
Inst : AS USSR
Title : The Regularity of Vitamin A Storage in the Muskrat in its
Natural Habitat
Orig Pub : Izv. AN SSSR, Ser. Biol., 1957, No 3, 343-351

Abstract : The storage of vitamin A in the liver of the muskrat (M)
in its natural habitat fluctuates within $<1 - 26 \text{ mg.}\%$.
There is no stored A in the newborn. The storage of A
begins in the nursing period and increases with the
transition to the green food, not reaching, however, the
level peculiar to the adult M. During the summer, the
males have a larger reserve of A in the liver than the
females, which is due to larger expenditure in the females

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Shvarts, S.S.

20-6-38/48

AUTHORS: Smirnov, V.S., Shvarts, S.S.

TITLE: Seasonal Variations in the Relative Weight of Suprarenal Glands in Mammals under Natural Conditions (Sezonnyye izmeneniya ot-nositel'nogo vesa nadpochechnikov u mlekopitayushchikh v pri-rodnykh usloviyakh)

PERIODICAL: Doklady AN SSSR, 1957, Vol. 115, Nr 6, pp. 1193 - 1196 (USSR)

ABSTRACT: Many papers deal with the great influence exerted by modifi-cations of the hormonal activity of the adrenal cortex upon the adjustement of animals to unfavorable conditions of en-vironment. This holds as well in laboratory test as in the open. When the density of population increases, the less fa-vorable conditions of life lead to a hypertrophy of the adre-nals. But also in a well prospering population the functional activity of the adrenals varies under the influence of seasonal variations of the conditions of the surroundings. Neither the importance of these variations themselves was correctly valued nor was the part played by the adrenals sufficiently taken in-to account . The topic under review was incorporated into the plan for biological investigations with the marsh-beaver (On-

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20-6-38/48

Seasonal Variations in the Relative Weight of Suprarenal Glands in Mammals
under Natural Conditions

data). The authors think that no great error occurred by using the weight of adrenals as a criterion for the variations of the cortical activity. This permitted work under natural conditions and thereby led to the discovery of laws which might otherwise not have been determinable. According to table 1 Ondatrae from 3 regions were investigated: 1.) Wood-steppe Transuralia (Kurgan region), 2.) lower course of the Ob' river (Salekhard) and 3) western shore of the Ob'-gulf (Yar-Sale). The analysis of these results leads to the following conclusions: a) in the first period of growth (summer) of the young animals the increase in mass of the adrenals lags behind that of the entire body, whereby their relative weight sinks. b) The weight of adrenals rapidly increases with the beginning of frost, so that its index increases. c) The highest index of adrenals is observed in males at the beginning of winter. d) After the maximum is reached, it begins to decrease. e) The increase in adrenals is a reaction to an abrupt temperature drop, before the beavers change over to a life under the ice. f) There exists an essential difference between young and "grown-up" (i.e. those hibernating the second time) animals: in older

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Seasonal Variations in the Relative Weight of Suprarenal Glands in Mammals
under Natural Conditions

animals the hypertrophy of adrenals begins earlier and lasts longer and it is more distinct than in animals born in the same year. g) The activity of adrenals is in a certain connection with the adjustment-processes to low temperatures. h) The above-mentioned laws may clearly be seen in Ondatra from all 3 regions, so that their reality and biological importance is not to be doubted. As a preliminary hypothesis the assumption may be uttered that the difference between old and young animals (see "f" above) is connected with the decrease in the activity of tissues in older animals in contrast to the hormonal influences. In young females the weight of adrenals does not sink in spring, as this is the case in males, but it further increases and is conserved till the winter. In winter this difference between the sexes is equalized. The increase in adrenals of the females during the period of propagation is explained by the special part played by cortico-hormones in the maintenance of a normal reproductive activity of the females. A specific placental hormone that stimulates the activity of adrenals also exists. It is true that these same laws also

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Seasonal Variations in the Relative Weight of Suprarenal Glands in Mammals
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hold for the wood-steps, but a small though marked increase in adrenals is evident also in young males. The propagation and the phenomena connected with it apparently make greater "demands" on the adrenals than the conditions of life during the winter. In the north the weight of adrenals of the young males is smaller. Thus the amount of hormones of the adrenal cortex plays an important part in the adaptation process of the animals to the seasonal changes of the conditions of life. This finds a different quantitative expression under various climatic conditions and manifests itself at different dates. In females the guiding factor is their participation in the propagation, in males the conditions of existence as dependent on temperature. The older animals react more abruptly than the young ones. The above-mentioned chief conclusions were confirmed in the laboratory with 5 other species of rodents. According to the authors they should therefore be extended in a general form to most species of mammals. There are 1 table and 1 Slavic reference.

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20-6-38/48

Seasonal Variations in the Relative Weight of Suprarenal Glands in Mammals
under Natural Conditions

ASSOCIATION: Institute for Biology of the Ural-Branch AN USSR
(Institut biologii Ural'skogo filiala Akademii nauk SSSR)

PRESENTED: by I.I. Shchegolev, Academician, April 10, 1957

SUBMITTED: April 15, 1957

AVAILABLE: Library of Congress

Card 5/5

SHVARTS, S.S.; PAVLININ, V.N.; SYUZYUMOVA, L.M.

Theoretical principles underlying prognoses of rodent populations
in the trans-Ural forest-steppe. Izv.AN SSSR. Otd.khim.nauk
no.10:3-59 0 '58. (MIRA 11:12)
(Ural Mountain region--Rodentia)

PAVLININ, V.N.; SHVARTS, S.S.

Distribution ranges of some rodents in the Urals. Izv. AN SSSR.
Otd. khim. nauk no. 10: 89-92 O '58. (MIRA 11:12)
(Ural Mountain region--Rodentia)

SHVARTS, S.S.

Method of physiologico-morphological indices in terrestrial vertebrate ecology [with summary in English]. Zool. zhur. 37 no.2:161-173 F '58. (MIRA 11:3)

1. Laboratoriya zoologii Instituta biologii Ural'skogo filiala AN SSSR, Sverdlovsk.

(Zoology--Ecology)

SHVARTS, S.S.; PAVLININ, V.N., kand.biol.nauk, otv.red.; POTAPOVA, T.S.
red.; ~~SEREDKINA~~, N.F., tekhn.red.

[Some problems with regard to species in terrestrial vertebrates]
Nekotore voprosy problemy vida i nazemnykh pozvonochnykh
zhivotnykh. Sverdlovsk, 1959. 130p. (Akademiia nauk SSSR.
Ural'skii filial, Sverdlovsk. Institut biologii. Trudy, no.11).
(MIRA 13:4)

(Species) (Vertebrates)

SHVARTS, S.S.

Some biological problems with regard to the sub-Arctic part of the Ob' Valley and tasks of the Salekhard Station of the Ural Branch of the Academy of Sciences of the U.S.S.R.; in lieu of a preface. Trudy Sal. stats. UFAN SSSR no.1:3-8 '59. (MIRA 14:9)
(Yamal-Nenets National Area--Zoological research)

SHVARTS, S.S.

Some ways of adaptation in mammals (particularly the Micromammalia)
to the conditions of life in the sub-Arctic. Trudy Sal. stats.
UFAN SSSR no.1:177-219 '59. (MIRA 14:9)
(Yamal-Nenets National Area--Zoology)
(Adaptation (Biology))

SHVARTS, S.S.

Biology of reproduction and age structure of the populations of
widely distributed vole species in the Far North. Trudy Sal.
stats. UFAN SSSR no.1:239-254 '59. (MIRA 14:9)
(Yamal-Nenets National Area--Field mice)

SHVARTS, S.S.

Some biological characteristics of the Arctic shrew (*Sorex
arcticus* Kerr.). Trudy Sal. stats. UFAN SSSR no.1:255-271
'59. (MIRA 14:9)

(Yamal-Nents National Area—Shrews)

SHVARTS, S.S.

Biology of reproduction of the ermine beyond the Arctic Circle.
Trudy Sal. stats. UFAI SSSR no.14359 '59. (MIRA 14:9)
(Salekhard ~~Region~~—Weasels)
(Reproduction)

SHVARTS, S.S.

The house mouse in the tundra. Trudy Sal. stats. UFAN SSSR
no.1:366 '59. (MIRA 14:9)
(Novyy Port region--Mice)

SHVARTS, S.S.

Biology of amphibians (*Rana terrestris* and *Hynobius keyserlingi*)
beyond the Arctic Circle. Trudy Sal. stats. UFAN SSSR no.1:393-
396 '59. (MIRA 14:9)

(Yamal-Nenets National Area--Amphibia)

SHVARTS, S. S.

Role of endocrine glands in the adaption of mammals to seasonal
changes of environmental conditions. Trudy Ural. otd. MOIP no.2:
137-145 '59 (MIRA 14:11)

(Endocrine glands)
(Adaptation(Biology))

SHVARTS, S.S.

Some theoretical problems in the acclimatization of terrestrial
vertebrates. Trudy Inst. biol. ~~UFA~~ SSSR no.18: 3-22 '59.
(MIRA 13:8)

(Acclimatization)

SMIRNOV, V.S., SHVARTS, S.S.

Comparative ecologico-physiological characteristics of the muskrat
in the forest steppe and arctic regions. Trudy Inst. biol. UPAN
SSSR no.18:91-138 '59. (MIRA 13:8)
(Siberia, Western--Muskrats)

SHVARTS, S.S.; PAVLININ, V.N.

Problems in the protection of terrestrial vertebrates of the
Urals. Zool.zhur. 38 no.7:1119-1120 J1 '59.
(MIRA 12:10)
(Ural Mountain region--Wild life, Conservation of)

SHVARTS, Stanislav Semenovich; PAVLININ, V.N., otv.red.; ARDASENOVA, L.P.,
red.izd-va; SEREDKINA, N.F., tekhn.red.

[Principles and methods of modern animal ecology; expanded report at
the philosophical seminary on biological problems, May 25, 1960]
Printsipy i metody sovremennoi ekologii zhivotnykh; rasshirenniy
doklad na filosofskom seminare po voprosam biologii 25 maia 1960 g.
Sverdlovsk, 1960. 49 p. (Akademiia nauk SSSR. Ural'skii filial,
Sverdlovsk. Institut biologii. Trudy, no. 21) (MIRA 14:7)
(Zoology--Ecology)

PAVLININ, V.N., kand.biologicheskikh nauk; SHVARTS, S.S., prof., doktor
biologicheskikh nauk

Conservation of terrestrial vertebrates in the Urals. Okhr. priro-
da Urale no.1:87-92 '60. (MIRA 14:4)
(Ural Mountain region—Wildlife, Conservation of)

SHVARTS, S.S.; PAVLININ, V.N.

Establishment of zoogeographical regions based on rodent distribution
in the Urals. Trudy Inst. biol. UFAN SSSR no. 14:83-96 '60.
(MIRA 14:6)

(Ural Mountain region--Rodentia)

SHVARTS, S.S.

Some features of the ecological foundation of interior constitution
characteristics in terrestrial vertebrates. Trudy Inst.biol.UFAN
SSSR no.14:113-177 '60. (MIRA 14:6)
(Zoology--Ecology) (Physiology)

SHVARTS, S.S.; KOPEIN, K.I.; POKROVSKIY, A.V.

Comparative study of some biological characteristics of the voles
Microtus gregalis gregalis Pall., *Microtus gregalis major* Ogn.,
and their hybrids. Zool.zhur. 39 no.6:912-926 Jo '60. (MIRA 13:7)

1. Laboratory of Zoology, Institute of Biology, Ural Branch of the
U.S.S.R. Academy of Sciences, Sverdlovsk.
(Field mice)

TOPORKOVA, L.Ya.; SHVARTS, S.S.

Amphibians above the Arctic Circle. Priroda 49 no.10:85-86 0 '60.
(MIRA 13:10)

1. Ural'skiy gosudarstvennyy universitet, Sverdlovsk (for Toporkova).
2. Institut biologii Ural'skogo filiala AN SSSR, Sverdlovsk (for Shvarts).

(Russia, Northern--Amphibia)

PAVLININ, V.H.; SHVARTS, S.S.; SMIRNOV, V.S., starshiy nauchnyy sotrudnik,
kand.biolog.nauk, otv.red.; SEREDKINA, N.F., tekhn.red.

[Long-range planning of acclimatization measures as exemplified in
the Urals] Perspektivnoe planirovanie akklimatizatsionnykh meropriatii.
Sverdlovsk, 1961; na primere Urala. 41 p. (Akademiia nauk SSSR.
Ural'skii filial, Sverdlovsk. Institut biologii. Trudy, no.24).
(MIRA 16:8)

(Ural Mountain region--Animal introduction)

SHVARTS, S.S.

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(Adaptation (Biology))

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Birds of India. Priroda 50 no.1:56-60 Ja '61. (MIRA 14:1)

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SHVARTS, Stanislav Semenovich, doktor biolog. nauk; STAROSTENKOVA,
M.M., red.; NAZAROVA, A.S., tekhn. red.

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populiatsii u vysshikh zhivotnykh. Moskva, Izd-vo "Znanie,"
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(MIRA 16:2)

(Field mice)

(Zoology—Variation)

(Color of animals)

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Some characteristics of the geographical variability of rodents
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(MIRA 16:2)

(Field mice)

(Zoology—Ecology)

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Washington, D.C., 20-27 Aug 63

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conditions governing their existence in subarctic regions.
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Vol. 1. Mlekopitaiushchie. Sverdlovsk, 1963. 130 p. (Akademiia
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ARDASENOVA, L.P., red. izd-va; PAL'MIN, M.Z., tekhn. red.

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areal, ocherk morfologii, problem mezhvidovoi gibridizatsii.
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1. Laboratory of Zoology, Institute of Biology, Ural Branch
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SHVARTS, S.S., prof.

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1. Institut biologii Ural'skogo filiala AN SSSR, Sverdlovsk.

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New data on various methods of the adaptation of animals to
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Otd. biol. 69 no.5:146-149 S-C '64. (MIRA 17:11)

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[Methods of censusing the abundance of animals; premises for their improvement and evaluation of the accuracy of census results.] Metody ucheta chislennosti zhekopi-tainshchikh predposylki k ikh sovershenstvovaniyu i oteensko tochnosti rezul'tatov ucheta [Sverdlovsk] Sredne-Ural'skoe knizhnoe izd-vo [1964] 86 p. (Akademiya nauk SSSR. Ural'skii filial, Sverdlovsk. Institut biologii. Trudy, no.39) (MIRA 18:8)

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64 '65. (MIRA 18:12)

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Animal world of Khadytayakha. Priroda 55 no.1:71-75 Ja '66.
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SHVARTS, T. B.

Member, Central Scientific Experiments
Institute of Communications

On-Development of a New Arrangement for Transmission
by Radio Wire and Telegraph

Soviet Source: N:-Sotsialisticheskaya Svyaz',
Abstracted in USAF "Treasure Island" Report No.
19830, on file in Library of Congress, Air
Information Division.

KOROLEV, B.A.; SHVARTS, T.F.

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meditsinskogo instituta imeni S.M. Zhireva.

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GUTENKO, V.I.

Clinical course of the defects of the interventricular septum
and their surgical treatment under conditions of extracorporeal
blood circulation. Uch. trudy GMI no.19:99-107 '65.

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Results of 205 operations performed on a "dry" heart under conditions of surface hypothermia. Uch. trudy GMI no.19:125-136 '65. (MIRA 18:8)

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SHVARTS, L.Ya.; SHVARTS, T.V.

Factors governing the formation of Balkhan structures in south-
western Turkmenia. Geol. nefti 2 no.7:25-34 J1 '58. (MIRA 11:8)
(Balkhan Range—Geology, Structural)

SHVARTS, T.V.

Tectonic development of the Kum-Dag fold in the upper Pliocene.
Geol.nefti i gaza 3 no.5:22-29 My '59. (MIRA 12:7)

1. Turkmenskiy filial Vsesoyuznogo neftegazovogo nauchno-issledovatel'-
skogo instituta.
(Kum-Dag--Folds (Geology))

SHVARTS, T.V.

History of the tectonic development of the Nebit-Dag fold. Geol.
nefti i gaza 5 no. 3:56-60 Mr '61. (MIRA 14:4)

1. Turkmenskiy filial Vsesoyuznogo neftegazovogo nauchno-
issledovatel'skogo instituta.
(Nebit-dag region--Folds (Geology))

BESEROVNIY, Nikolay Sergeyevich; GEMP, Sergey Dmitriyevich; SHVARTS, Tamara Vasil'yevna; IONINA, I.N., vedushchiy red.; YASHCHURZHINSKAYA, A.B., tekhn.red.

[Deep faults in western Turkmenia and their role in the formation of oil pools] Glubinnye razlomy Zapadnoi Turkmenii i ikh rol' v formirovanii neftiannykh zalezhei. Leningrad, Gostoptekhzdat, 1963. 104 p. (Leningrad. Vsesoiuznyi neftianoi nauchno-issledovatel'skii geologorazvedochnyi institut. Trudy, no.210). (MIRA 16:12)

SHVARTS, V.; SEMENNIKOVA, N.V., red.; NIKOLAI, S.B., tekhn.red.

[The artistic monuments of Leningrad] Leningrad; khudozhestvennye
pamiatniki, ocherk. Izd.2. Leningrad, Gos.izd-vo "Iskusstvo,"
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(Leningrad—Description)

SHVARTS, V.A.

Using flexible disk couplings. Stroil.i dor. mashinostr. 3 no.12:30
D '58. (MIRA 11:12)

(Couplings)

25(2)

SOV/117-59-4-17/36

AUTHOR: Shvarts, V.A., Engineer

TITLE: The Use of Couplings with Intermediate Disks.

PERIODICAL: Mashinostroitel', 1959, Nr 4, p 32 (USSR)

ABSTRACT: The described heavy-duty couplings with intermediate disks made of worn conveyer belts or rubber-impregnated drive belts are used at the Zavod im. Yanvarskogo vosstaniya (Plant imeni Yanvarskoye vosstaniye) at the suggestion of the author. The three designs in use, with a two-wing disk, a triangular one and a star-shaped one (Figures 1,2,3) have replaced all the nine "GOST 2229-55" MUV standard couplings. They are used in earth mixers in the foundry, on an overhead traveling crane (between the motor and the reduction gear) and in other equipment. In mixers they work 6 to 12 months without replacement, and in the crane drive, no replacement has been needed since the coupling was

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The Use of Couplings with Intermediate Disks.

installed more than a year ago. The formerly-used "MUVF" couplings ("GOST 2229-55") caused frequent breakdowns and monthly replacements of the rubber bushes in mixers, and in the crane drive the coupling had to be replaced every two months. There are 2 photographs and 1 diagram.

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SHUBENKO-SHUBIN, Leonid Aleksandrovich; LISETSKIY, Nikolay Longinovich;
SHVARTS, Viktor Aleksandrovich; KORZH, Petr Ivanovich; PROSKURA,
G.F., akademik, retsenzent [deceased]; YERSHOV, V.N., dotsent,
kand.tekhn.nauk, retsenzent; SOROKA, M.S., red.

[Atlas of drawings and diagrams of gas turbine units] Atlas
konstruktsii i skhem gazoturbinnykh ustanovok. Pod obshchei red.
L.A.Shubenko-Shubina. Moskva, Gos.nauchno-tekhn.isd-vo mashino-
stroit.lit-ry, 1960. 183 p. (MIRA 14:1)

1. Chlen-korrespondent AN USSR (for Shubenko-Shubin). 2. AN USSR
(for Proskura).
(Gas turbines--Design)

39741
S/096/62/000/008/001/004
E194/E455

26.2 124
AUTHOR:

Shvarts, V.A., Engineer

TITLE:

Selection of optimum parameters and assessment of the effectiveness of heat-exchange surface in the regenerators of gas turbines

PERIODICAL: Teploenergetika, no.8, 1962, 55-59

TEXT: The degree of regeneration ρ , and the resistance Δp of the regenerator, affect the regenerator size and the characteristics of the entire gas-turbine set. The contradictory data existing is reflected in the wide range of actual values chosen by different manufacturers. The main reason is that the theoretical determination of optimum values of ρ and Δp assumes that the cycle parameters and the air and gas speeds in the regenerator are of optimum values, which is seldom the case. This article describes the procedure used in designing gas-turbine heat exchangers in the Khar'kov Turbine Works. It gives optimum values of ρ and Δp and can also be used to assess the effects of deviations of these magnitudes from the optimum values. The following expressions are then derived

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Selection of optimum ...

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$$\frac{1-p}{p} = \frac{3600c_p s_1 s_2}{\pi d l} \left(\frac{L}{F_{\phi.o}^{1-m_1}} + \frac{M}{F_{\phi.o}^{1-n_1}} \right), \quad (14)$$

$$\Delta p = l \left(\frac{N}{F_{\phi.o}^{2-m_1}} + \frac{R}{F_{\phi.o}^{2-n_1}} \right). \quad (15)$$

where s_1, s_2 - the tube pitches in mutually perpendicular directions, d - tube outside diameter, l - tube length, F_{ϕ} - frontal area of tube bundle, $F_{\phi.o} = F_{\phi}/G$ $m^2/kg/sec$. m_1 and n_1 are derived from the following equation

$$Nu_{\Gamma} = A_{\Gamma} Re_{\Gamma}^{m_1}; \quad Nu_B = A_B Re_B^{n_1} \quad (7)$$

the first of these relates to gas and the second to air. A graphical method of solving these equations is described and illustrated and a curve of the function $V_o = f(p, \Delta p)$ is plotted. A further graphical solution is then used to select optimum values of p and Δp which gives a highest set efficiency for a

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Selection of optimum ...

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particular value of V_0 , ($V_0 = V/G = F \phi_0 \text{ m}^3/\text{kg/sec}$).
By way of illustration, graphs of efficiency as a function of ρ and Δp are plotted for a gas turbine type ГТГ-50/800 (GTU-50/800) and it is shown that the curves of $V_{0 \text{ idem}}$ are fairly smooth near the maximum. Accordingly for a given value of V_0 various design adjustments are possible to make the equipment cheap and easy to make. The selection of gas and air speed is particularly discussed. The use of the procedure to determine the effectiveness of various heat-transfer surfaces is explained; surfaces are compared both on the basis of constant efficiency and of constant ρ and Δp . The expressions that are given relate to tubular counter-flow heat-exchangers, but others can be derived for cross-flow exchangers, plate type heat-exchangers and air coolers. There are 5 figures. ✓

ASSOCIATION: Khar'kovskiy turbinnyy zavod (Khar'kov Turbine Works)

Card 3/3

SHUBENKO-SHUBIN, L.A.; SHVARTS, V.A., inzh.

"Regeneration systems and regenerators of gas turbine plants" by
IU.M.Dedusenko. Reviewed by L.A.Shubenko-Shubin, V.A.Shvarts.
Energomashinostroenie 8 no.1:37 Ja '62. (MIRA 15:3)

1. Chlen-korrespondent AN USSR (for Shubenko-Shubin).
(Gas turbines) (Dedusenko, IU.M.)

SHVARTS, V.A., inzh.

Problems in the creation of regenerators for stationary high capacity gas turbine systems. Teploenergetika 9 no.1:25-28
Ja '68. (MIRA 14:12)

1. Khar'kovskiy turbinnyy zavod.
(Gas turbines--Design)
(Heat--Transmission)

SHVARTS, V.A., inzh.

Choice of optimum parameters and evaluation of the efficiency of the
heat exchange surface of the regenerators of gas turbine systems.
Teploenergetika 9 no.8:55-59 Ag '62. (MIRA 15:7)

1. Khar'kovskiy turbinnyy zavod.
(Gas turbines) (Heat regenerators)